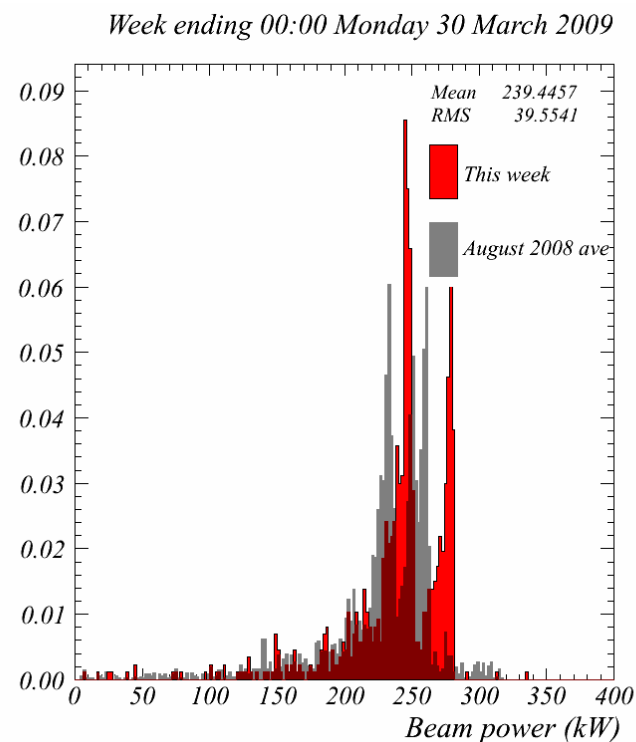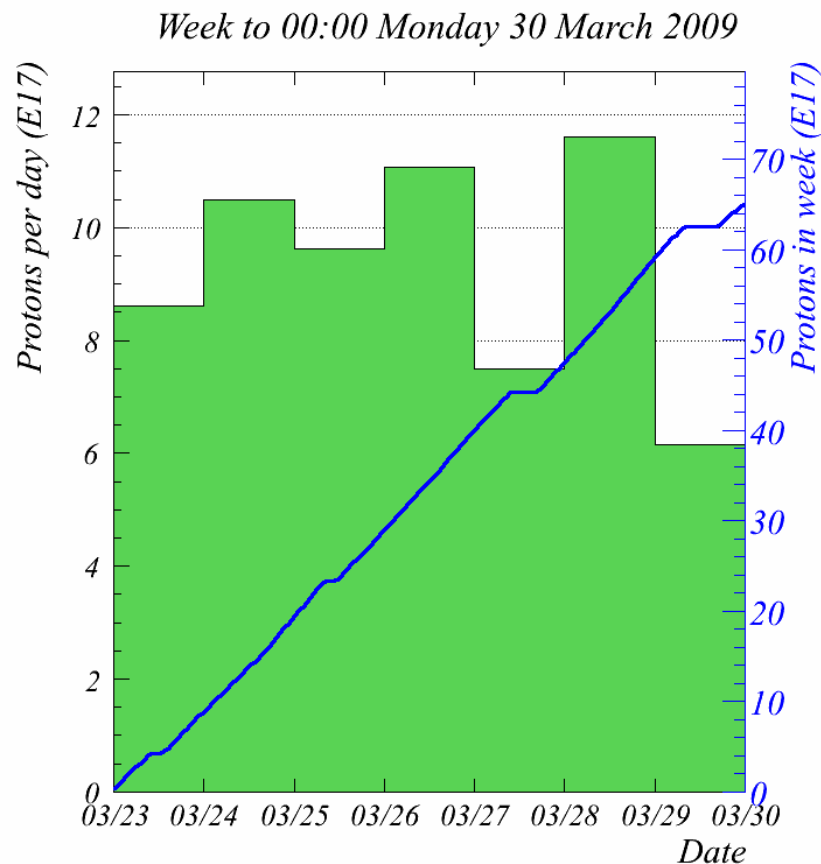# NuMI-MINOS Status Report – Bob Zwaska

- ## 65e17 protons for the week

- ## Reasonable-to-good powers

  - ### Beam downtimes (large on Friday and Saturday)

Week to 00:00 Monday 30 March 2009

Week ending 00:00 Monday 30 March 2009

NuMI-MINOS Status Report – Bob Zwaska

NEAR DETECTOR:

- Cooling water troubles
  - Cooling water has stabilized at elevated levels
    - 74 F vs 67 F
    - A number of kludges were tried, and had some success
  - Electronics are stable, but everything is heating up, including cavern and detector
    - Scintillator ages about 5% faster for every 1 F, we are about 4 F higher
  - Few fixes are in the works, but are weeks to months away
    - We can run this way for a short period, but not indefinitely
- LCW pumps tripped or turned off Tuesday (unrelated to above?)
  - Cause is not understood – work was going on underground
- Magnetic field is REVERSED
  - Will be turned FORWARD on Wednesday

BEAM DATA PROCESSOR:

- Communication with ACNET ceased on Friday
  - Traced to a busy server on ACNET
    - Caused by an ancillary, and unnecessary monitoring process
  - Several hours of beam information lost – will be reclaimed from ACNET

NuMI-MINOS Status Report – Bob Zwaska

FAR DETECTOR:

- Chiller transformer failed – caught very quickly, no detector effects

  - Spare put into operation

  - Primary will be fixed this week

- Fiber work performed during Friday beam downtime for spare GPS system

- Power outage planned for April 3 – coordinated with no-horn running (see next slide)

  - Detector will be down for 4-8 hours

Proton-weighted Live time: 99.90% (83% with good beam information)

Wall-clock Live time: 99.46%

NuMI-MINOS Status Report – Bob Zwaska

Plan for Horn-off Running:

- A small amount of *Near Detector* data taken with the horns off is a high priority before the shutdown
  - Need 6-7e18 of horn-off data
    - Already have ~ 2e18
- Plan to take data over two weekends in April
  - Minimize possible effects from concurrent installations in MINOS hall
  - April 3-5 (including Friday day for Soudan power outage)
  - April 17-19 (starting Friday afternoon)
  - Should be transparent to operations upstream of NuMI
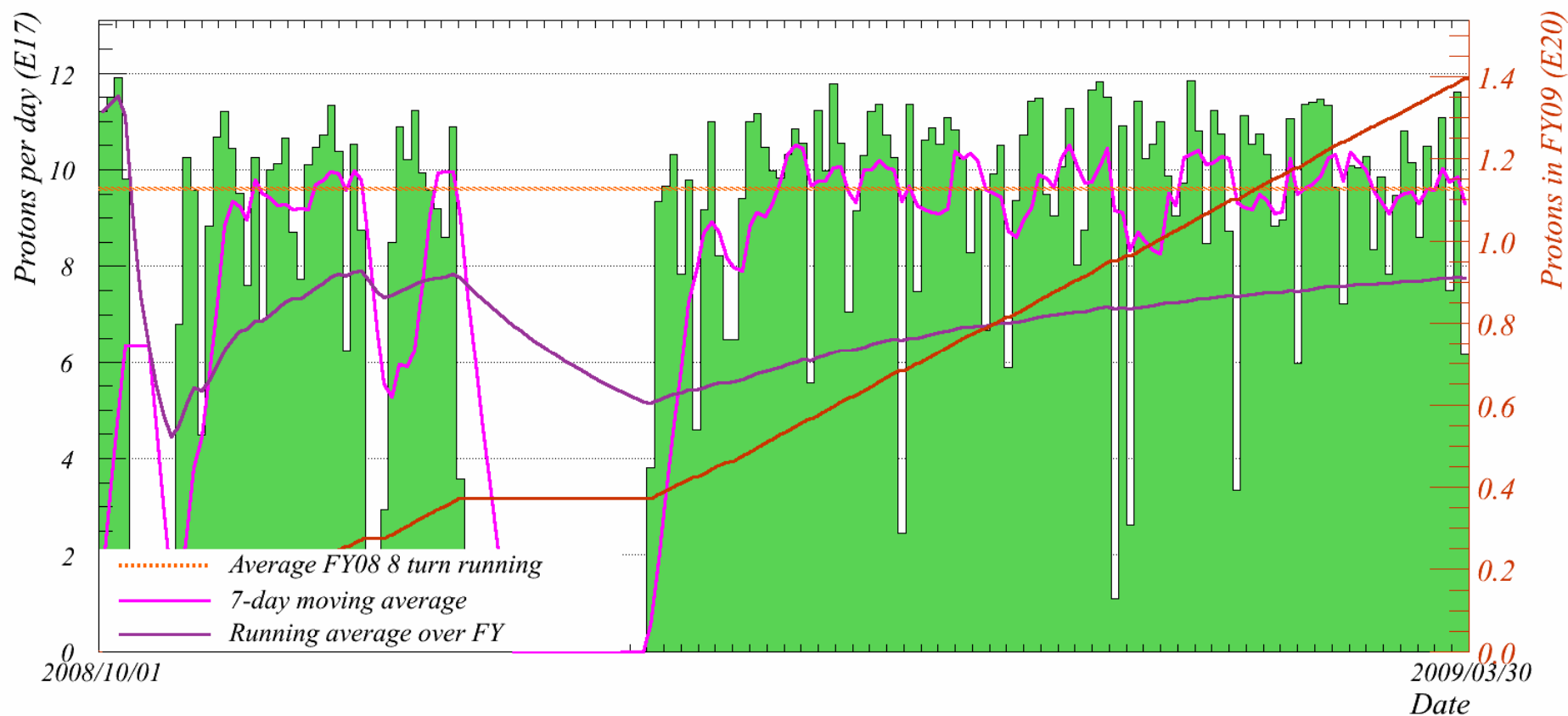   - Requires some masking in beam permit system

NuMI-MINOS Status Report – Bob Zwaska

- Fiscal year 2009 - 1.40e20

FY09 NuMI protons to 00:00 Monday 30 March 2009

NuMI-MINOS Status Report – Bob Zwaska

- Entire Run   -   6.9e20

Total NuMI protons to 00:00 Monday 30 March 2009